

## IN THE CLAIMS

This listing of claims replaces all prior versions and listing of claims in the application:

1. (currently amended) A method of producing a human pluripotent stem cell from a human ~~adult somatic cell~~keratinocyte comprising treating said ~~adult somatic cell~~keratinocyte with a first agent that promotes demethylation of nucleic acids, a second agent that inhibits the deacetylation of histone proteins, and a third agent that promotes the arrest of cells in metaphase, wherein the ~~adult somatic cell~~keratinocyte, subsequent to treating with the first agent, the second agent and the third agent, ~~is~~has become a pluripotent stem cell which (a) expresses a telomerase gene product and an Oct-4 gene product, and (b) is capable of expressing a gene product selected from the group consisting of neurofilament, cardiac actin and alpha antitrypsin.

2. (canceled)

3. (previously amended) The method of claim 1 wherein the first agent is 5-aza-2'-deoxycytidine.

4. (previously amended) The method of claim 1 wherein the first agent is comprising treating said adult somatic cell with 5-aza-2'-deoxycytidine, the second agent is trichostatin A and the third agent is Tat-cyclin B.

5-7. (canceled)

8. (currently amended) The method of claim 4 wherein ~~the adult somatic cell is a keratinocyte~~the pluripotent stem cell, upon treatment with retinoic acid, expresses a gene product selected from the group consisting of neurofilament, cardiac actin and alpha antitrypsin.

9-20. (canceled)

21. (previously presented) The method of claim 1 wherein the second agent is trichostatin A.

22. (previously presented) The method of claim 1 wherein the third agent is Tat-cyclin B.

23-33. (canceled)